

Table 4. Least square means for lint yield, yield components, and fiber quality traits in the 2015 RBTN trial conducted at College Station, TX. (Cooperator: Richard Percy)

Cultivar	Lint Yield	Lint Percent	Lint Index	Boll Size	Seed per Boll	Seed Index	MIC	UHM	UI	STRN	ELO	SFC	QS1 <sup>†</sup>	QS2 <sup>†</sup>
	lbs/a	%	grams	grams	#	grams	mic	inches	%	g/tex	%	%	%	%
UA 222 CK	<b>1375</b>	39.88	<b>7.82</b>	5.43	27.73	11.77	<b>5.46</b>	<b>1.22</b>	<b>85.35</b>	32.45	5.22	7.15	68.25	74.00
Ark 0711-2	<b>1274</b>	37.40	6.35	4.87	<b>28.70</b>	10.55	5.28	1.20	85.08	33.80	3.80	7.38	68.75	75.00
GA 2011124	<b>1207</b>	<b>42.91</b>	6.56	4.48	<b>29.34</b>	8.65	<b>5.57</b>	1.11	83.78	31.00	4.38	7.93	33.25	57.75
MS 0045-14 -5	<b>1170</b>	39.27	7.16	5.13	28.21	11.01	5.33	1.15	84.35	32.03	3.93	7.60	49.00	64.75
LA12306017	<b>1155</b>	38.71	7.23	4.93	26.36	11.34	5.28	1.21	84.20	34.20	4.38	7.65	68.75	70.75
MS 0043-28 -1	<b>1153</b>	40.42	7.05	5.17	<b>29.67</b>	10.34	<b>5.47</b>	1.13	83.83	30.20	4.65	7.73	39.50	59.75
Ark 0705-46	<b>1150</b>	<b>41.96</b>	<b>7.77</b>	5.66	<b>30.55</b>	10.69	<b>5.71</b>	1.10	83.75	30.10	4.78	7.63	24.75	46.25
PD 07092	<b>1143</b>	37.45	7.13	5.29	27.77	11.81	4.90	<b>1.25</b>	<b>86.18</b>	35.48	4.03	6.93	<b>88.75</b>	<b>90.00</b>
DP 393 CK	<b>1137</b>	41.13	6.86	5.07	<b>30.34</b>	9.73	5.28	1.13	84.88	30.18	5.00	7.50	47.00	67.75
Ark 0707-33	<b>1108</b>	41.28	<b>8.14</b>	5.23	26.49	11.44	5.14	1.14	84.73	30.68	<b>5.73</b>	7.50	50.25	68.00
Ark 0701-17	<b>1099</b>	40.61	7.41	5.44	<b>29.76</b>	10.79	5.04	1.16	83.75	30.18	4.35	7.83	56.00	64.00
MS 0045-14 -8	1050	39.19	6.69	5.03	<b>29.53</b>	10.31	5.33	1.12	83.63	31.05	4.40	7.88	40.25	59.25
LA12306028	1013	37.78	7.15	8.65	24.42	11.68	5.09	<b>1.23</b>	<b>85.78</b>	<b>37.78</b>	4.58	7.03	<b>82.00</b>	<b>89.00</b>
PD 07116	1008	37.52	7.30	5.14	26.59	12.09	5.01	1.19	83.60	32.38	3.33	7.88	64.50	65.25
DP 491 CK	1007	39.17	6.66	5.36	<b>31.50</b>	9.78	5.12	1.17	83.40	30.85	3.78	8.30	55.75	62.00
Ark 0712-9	1000	39.39	6.57	4.99	<b>29.98</b>	10.04	5.21	1.14	82.28	28.23	4.43	<b>8.95</b>	42.50	44.50
SG 105 CK	996	39.59	7.08	5.01	28.14	10.68	5.43	1.11	84.45	28.60	4.65	7.73	36.50	53.50
LA12306010	989	39.13	7.29	4.69	25.29	11.32	5.01	1.19	<b>85.55</b>	33.18	4.70	7.33	71.25	79.00
NM 13W3007	986	38.15	6.61	5.21	<b>30.10</b>	10.65	5.15	1.17	83.13	31.80	4.10	8.23	54.25	60.25
GA 2010102	983	37.35	6.56	4.81	27.46	10.90	5.38	1.18	84.50	35.65	3.90	7.25	59.00	73.25
GA 2011004	973	<b>43.18</b>	7.16	4.68	28.23	9.35	5.42	1.16	83.73	30.38	4.50	7.88	50.50	61.50
PD 07105	961	35.49	6.33	4.90	27.50	11.44	4.66	<b>1.24</b>	84.33	32.95	3.38	7.35	<b>82.00</b>	74.50
MS 0042-3 -7	943	38.55	7.04	5.11	28.07	11.12	5.19	1.15	84.03	29.98	4.63	7.85	51.75	64.25
PD 07040	823	38.55	6.58	4.94	<b>28.96</b>	10.44	5.15	1.12	83.08	29.70	4.40	<b>8.38</b>	39.75	56.75
FM 958 CK	815	39.57	7.06	5.28	<b>29.72</b>	10.69	5.18	1.12	83.48	29.80	3.53	8.33	41.50	59.00
Acala 1517-08	761	35.82	5.92	4.59	27.77	10.55	4.72	1.20	84.95	35.68	4.23	7.23	75.75	<b>81.75</b>
NM 13P1088	757	34.96	6.02	5.11	<b>29.73</b>	11.09	4.71	1.18	84.65	35.43	4.68	7.18	68.75	76.25
NM 13W3017	638	34.05	6.72	5.70	<b>28.88</b>	<b>12.95</b>	5.06	1.17	84.15	33.80	2.95	7.80	60.00	69.50
<b>Mean</b>	1024	38.87	6.94	5.21	28.46	10.83	5.19	1.16	84.23	32.05	4.30	7.69	56.08	66.70
<b>Cultivar LSD (.05)</b>	278	1.53	0.53	ns	2.98	0.64	0.25	0.03	0.99	1.64	0.35	0.57	11.65	10.82
<b>Cultivar (P&gt;F)</b>	0.0003	<0.0001	<0.0001	0.6319	0.0013	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>CV(%)</b>	19.30	2.80	5.43	29.99	7.45	4.23	3.48	2.00	0.84	3.64	5.83	5.28	14.76	11.23
<b>R-Square</b>	0.53	0.85	0.72	0.26	0.53	0.84	0.74	0.93	0.69	0.87	0.89	0.65	0.84	0.75
<b>Reps</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Values in bold are not significantly different from highest value according to LSD(0.05).

<sup>†</sup> QS1 & QS2 = Qscore, very similar to a selection index, adds the weighted values of selected fiber traits (length, mic, UI, strength) to provide a single measure (0-100) of desirable fiber qualities, and was calculated by weighting selected fiber traits as follows: QS1 - fiber length (0.5), mic (0.25), UI (0.1), and strength (0.15) ; QS2 - fiber length (0.1), mic (0.1), UI (0.3), and strength (0.5)